

INTERNATIONAL SEARCH REPORT

PCT/GB2004/005030

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/55 A61P29/00 A61P25/28 A61P37/00 A61P19/10
C07D223/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DAVIDSON BRADLEY S ET AL: "Isolation and synthesis of caprolactins A and B, new caprolactams from a marine bacterium" TETRAHEDRON, vol. 49, no. 30, 1993, pages 6569-6574, XP002320426 ISSN: 0040-4020 abstract page 6569, paragraph 1 page 6571, last paragraph ----- -/-</p>	1-6,8, 19-22

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

9 March 2005

Date of mailing of the international search report

22.06.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Langer, O

INTERNATIONAL SEARCH REPORT

PCT/GB2004/005030

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SEIFFERT D ET AL: "Presenilin-1 and -2 are molecular targets for gamma-secretase inhibitors." THE JOURNAL OF BIOLOGICAL CHEMISTRY. 3 NOV 2000, vol. 275, no. 44, 3 November 2000 (2000-11-03), pages 34086-34091, XP002320427 ISSN: 0021-9258 scheme 1 on page 34087 -----	5,6,8, 10,11, 21,22
X	WO 98/07694 A (NOVARTIS AG; GERSPACHER, MARC; VON SPRECHER, ANDREAS; MAH, ROBERT; ROG) 26 February 1998 (1998-02-26) page 1 - page 3, paragraph 3 page 3, paragraph 5 - page 5, paragraph 3 claims 1-14 -----	1
X	EP 1 008 346 A (SUNTORY LIMITED; DAIICHI SUNTORY PHARMA CO., LTD) 14 June 2000 (2000-06-14) paragraph [0022] paragraph [0024] - paragraph [0028] page 58 paragraph [0200] -----	1
X	US 5 852 007 A (CHATTERJEE ET AL) 22 December 1998 (1998-12-22) column 64; example 108 -----	1
X	US 5 821 231 A (ARRHENIUS ET AL) 13 October 1998 (1998-10-13) table 1 claims 20-25 -----	1
X	WO 01/68655 A (ARIAD PHARMACEUTICALS, INC; DEPREZ, PIERRE; LESUISSE, DOMINIQUE; BENAR) 20 September 2001 (2001-09-20) page 11, line 5 - line 19 claims 13,24 claims 18-20 -----	1
X	EP 0 351 856 A (TAKEDA CHEMICAL INDUSTRIES, LTD) 24 January 1990 (1990-01-24) Chart II on page 7 -----	5,8,10, 11,21,22
A	WO 98/17680 A (ZENECA LIMITED; LUKE, RICHARD, WILLIAM, ARTHUR; COTTON, RONALD) 30 April 1998 (1998-04-30) claims 1,8,11-13 -----	1-24,26
A	US 6 344 450 B1 (BISACCHI GREGORY S ET AL) 5 February 2002 (2002-02-05) Chart II on page 7 the whole document -----	1-24,26

INTERNATIONAL SEARCH REPORT

PCT/GB2004/005030

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 20 and claims 21-23, as far as relating to a method of treatment, are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-6, 10, 11, 16, 18-20 (all partially), 7-9, 12-15, 17, 21-24, 26

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 7-9, 12-15, 17, 21-24, 26 and partially 1-6, 10, 11, 16, 18-20

Compounds, pharmaceutical compositions and uses according to the above claims with the exception of those cases where (a) R1 and R2 are "peptido radicals"; or (b) the R1 radical has an alpha-carbon which is substituted with one or two of the same or different groups selected from alkoxy, haloalkoxy and alkylamino; or (c) R1-C(=O) is one of the groups
11'-azido-undecanoyl; (2'S,
3'R)-3'-hydroxy-2'-methyldecanoyl; (2'R,
3'S)-3'-hydroxy-2'-methyldecanoyl,
(3'R)-3'-hydroxy-2',2'-dimethyldecanoyl,
(3'S)-3'-hydroxy-2',2'-dimethyldecanoyl, and
2',2'-dimethyl-3'-hydroxypropionyl.

2. claims: 10, 11, 16 and 18 (all partially)

Compounds, pharmaceutical compositions and uses according to the above claims wherein R1 and R2 are not "peptido radicals" and where (a) the R1 radical has an alpha-carbon which is substituted with one or two of the same or different groups selected from alkoxy, haloalkoxy and alkylamino; and/or (b) R1-C(=O) is one of the groups
11'-azido-undecanoyl; (2'S,
3'R)-3'-hydroxy-2'-methyldecanoyl; (2'R,
3'S)-3'-hydroxy-2'-methyldecanoyl,
(3'R)-3'-hydroxy-2',2'-dimethyldecanoyl,
(3'S)-3'-hydroxy-2',2'-dimethyldecanoyl, and
2',2'-dimethyl-3'-hydroxypropionyl.

3. claims: 1-6, 19, 20 (all partially)

Compounds, pharmaceutical compositions and uses according to the above claims wherein R1 and R2 are "peptido radicals", as far as not comprised within one of the former inventions.

4. claim: 25

Synthetic intermediates of claim 25.

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/005030

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9807694	A 26-02-1998	AT 224875 T AU 721850 B2 AU 4299397 A BR 9711350 A CA 2264065 A1 CN 1233238 A ,C CZ 9900581 A3 DE 69715886 D1 DE 69715886 T2 DK 923550 T3 WO 9807694 A1 EP 0923550 A1 ES 2184083 T3 HK 1021372 A1 HU 0001165 A2 ID 18059 A IL 128631 A JP 2001503387 T NO 990786 A NZ 334736 A PL 331740 A1 PT 923550 T RU 2185375 C2 SI 923550 T1 SK 22199 A3 TR 9900363 T2 TW 438777 B US 6319917 B1 ZA 9707493 A		15-10-2002 13-07-2000 06-03-1998 17-08-1999 26-02-1998 27-10-1999 16-06-1999 31-10-2002 15-05-2003 06-01-2003 26-02-1998 23-06-1999 01-04-2003 20-06-2003 28-11-2000 26-02-1998 12-09-2002 13-03-2001 25-03-1999 29-09-2000 02-08-1999 31-01-2003 20-07-2002 28-02-2003 14-02-2000 21-04-1999 07-06-2001 20-11-2001 03-08-1998
EP 1008346	A 14-06-2000	AU 2854399 A AU 2003244564 A1 CA 2290630 A1 EP 1008346 A1 HU 0003274 A2 CN 1262618 A ,C WO 9948491 A1 US 2004030129 A1		18-10-1999 02-10-2003 30-09-1999 14-06-2000 28-05-2001 09-08-2000 30-09-1999 12-02-2004
US 5852007	A 22-12-1998	AU 714324 B2 AU 1025397 A CA 2238175 A1 EP 0910564 A1 JP 2002515860 T WO 9721690 A1		06-01-2000 03-07-1997 19-06-1997 28-04-1999 28-05-2002 19-06-1997
US 5821231	A 13-10-1998	CA 2177840 A1 CN 1142832 A JP 9509146 T NZ 277206 A US 5770573 A US 5936065 A US 6117840 A AU 693143 B2 AU 1215695 A EP 0737204 A1 WO 9515973 A1 US 5688913 A		15-06-1995 12-02-1997 16-09-1997 24-11-1997 23-06-1998 10-08-1999 12-09-2000 25-06-1998 27-06-1995 16-10-1996 15-06-1995 18-11-1997

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/005030

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 5821231	A	US	6103870 A	15-08-2000
WO 0168655	A	20-09-2001	AU 4360101 A WO 0168655 A2	24-09-2001 20-09-2001
EP 0351856	A	24-01-1990	AT 184610 T AU 610739 B2 AU 3886289 A CA 1336431 C DE 68929074 D1 DE 68929074 T2 DK 362889 A EP 0351856 A2 IL 91063 A JP 3047188 A JP 3054738 B2 KR 9711396 B1 NZ 230042 A US 4956360 A US 5118806 A US 5300639 A ZA 8905582 A	15-10-1999 23-05-1991 25-01-1990 25-07-1995 21-10-1999 05-01-2000 23-01-1990 24-01-1990 29-12-1994 28-02-1991 19-06-2000 10-07-1997 26-10-1990 11-09-1990 02-06-1992 05-04-1994 27-03-1991
WO 9817680	A	30-04-1998	AT 256145 T AU 4633097 A DE 69726743 D1 DE 69726743 T2 EP 0932618 A1 WO 9817680 A1 JP 2001508036 T TW 492868 B US 6207644 B1 ZA 9709338 A	15-12-2003 15-05-1998 22-01-2004 14-10-2004 04-08-1999 30-04-1998 19-06-2001 01-07-2002 27-03-2001 20-04-1998
US 6344450	B1	05-02-2002	AU 8064201 A CA 2418995 A1 EP 1309609 A2 HU 0303662 A2 JP 2004521071 T WO 0212196 A2 AU 756174 B2 AU 2630000 A CA 2361919 A1 EP 1175405 A1 JP 2002536437 T WO 0047563 A1	18-02-2002 14-02-2002 14-05-2003 01-03-2004 15-07-2004 14-02-2002 09-01-2003 29-08-2000 17-08-2000 30-01-2002 29-10-2002 17-08-2000